

Appl. No. 09/896,813
Response date: August 15, 2005

Entry approved
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The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (cancelled)

2. (cancelled)

3. (currently amended) The method of claim 2 In an optical network having a plurality of interconnected nodes, each node capable of selectively switching optical signals in a first wavelength channel and an input fiber and to any one of a plurality of wavelength channels and output fibers, a method of restoring connection between said nodes upon a failure of said network, said method comprising

maintaining at each of said nodes a synchronized database of network connections between said nodes;

wherein said synchronized database maintaining step comprises
accepting results of said recalculating network connections at all of said interconnected nodes of said optical network if all nodes complete said recalculation network connections step successfully; and

rejecting said results of said recalculation steps at all of said interconnected nodes of said optical network if one or more nodes do not complete said recalculation network connections step successfully;

sending messages to other nodes to initiate restoration operations by a node noticing said failure; and

recalculating network connections around said failure by each node from a synchronized database at said node wherein said recalculating network connections step is performed independently by each node.

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4. (original) The method of claim 3 wherein said accepting results substep is performed upon acknowledgment by each node of successful completion of said recalculation network connections step.

5. (original) The method of claim 4 wherein successful completion of said recalculation network connections step is acknowledged by transmitting an acknowledgment message to said node noticing said failure, said node transmitting a message to all other of said interconnected nodes of said optical network to update databases of said interconnected nodes of said optical network with said results.

6. (previously presented) The method of claim 3 wherein said rejecting results substep is performed by lack of acknowledgment by one or more nodes of successful completion of said recalculation network connections step.

7. (previously presented) The method of claim 6 wherein said rejecting results substep further includes said node noticing said failure transmitting a message to all other of said interconnected nodes of said optical network to abort said results.

8. (cancelled)

9. (cancelled)